Grantee: CITY OF NUNAM IQUA

Project Name: NUNAM IQUA BFU

Grant# 7210007 **Project# 340274**

Grant Completion Report

Background: Nunam Iqua received this grant for replacement of their old tank farm. It was determined that by using vertical tanks instead of the planned horizontal tanks, the new farm could be constructed on the existing gravel pad, saving nearly $500,000. It required a two year, phased construction approach where half of the existing tanks were moved to a temporary location so that portion of the existing pad could be prepped for tanks. Contractor had to coordinate with the City to minimize the amount of fuel remaining in the tanks so the amount of fuel needing to be transferred in early summer was kept to a minimum. Contractor mobilized for the 2014 construction season and was able to prep the rest of the pad, install and commission the new facility it time for the City to get their fall fuel delivery.

Activities: Work under this grant included design and construction. The design was performed by UMIAQ and construction by CE2 Engineers. AEA procured gravel, ring-wall prefabricated foundations and the vertical tanks.

Project Costs: Design and construction administration, roughly $310,000 and construction, roughly $3,600,000. Total project cost: $4,223,358.74

Project Outcomes:
Project was successfully completed and has been in operation for over a year. We were able to include a remote dispenser near the river for boat traffic.

Problems Encountered: No significant problems.

Conclusions and Recommendations: This was one of the last projects completed under AEA's Term CM Contracts. CE2 participated in developing the two year construction concept that reduced the risk of not being able to construct the complete facility in one construction season. Had we bid the project for one construction season (original plan) the cost would have been significantly higher and in all likelihood reduced the amount of force account opportunities. It's also likely that it could have turned into a two year project and with significant delay damages due to an owner requested change.

Future bulk fuel projects need to recognize the importance of transitioning from the old bulk fuel facility to the new one. It isn't automatic and takes a great deal of coordination and time to make a smooth change over. This is even more critical if the new facility is being constructed on the old foundation.